SIX HUNDRED V2

USER'S MANUAL

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SIX HUNDRED V2 USER'S MANUAL

Congratulations on your purchase of the Antec Six Hundred V2.

The Six Hundred V2 is designed for gaming purists. With new features like a built-in 2.5" hot swap hard drive caddy and CPU cutout, the Six Hundred V2 delivers both the flash and the core essentials, including a hard-hitting cooling system with a 200 mm overhead TriCool™ blue LED fan. The Six Hundred V2 is pure, simple gaming design at its finest.

The Six Hundred V2 comes without a power supply. Make sure you choose a power supply that is compatible with your computer components and has a long enough power harness to reach your motherboard and peripheral devices. We recommend our High Current Gamer, High Current Pro or CP power supplies for the latest ATX specification compliance, broad compatibility, and power savings capability.

At Antec, we continually refine and improve our products to ensure the highest quality. It's possible that your new case will differ slightly from the descriptions in this manual. This isn't a problem; it's simply an improvement. As of the date of publication, all features, descriptions, and illustrations in this manual are correct.

Disclaimer: This manual is not designed to cover CPU, RAM, or expansion card installation. Please consult the motherboard manual for specific mounting instructions and troubleshooting. Before proceeding, check the manual for your CPU cooler to find out if there are steps you must do before installing the motherboard.

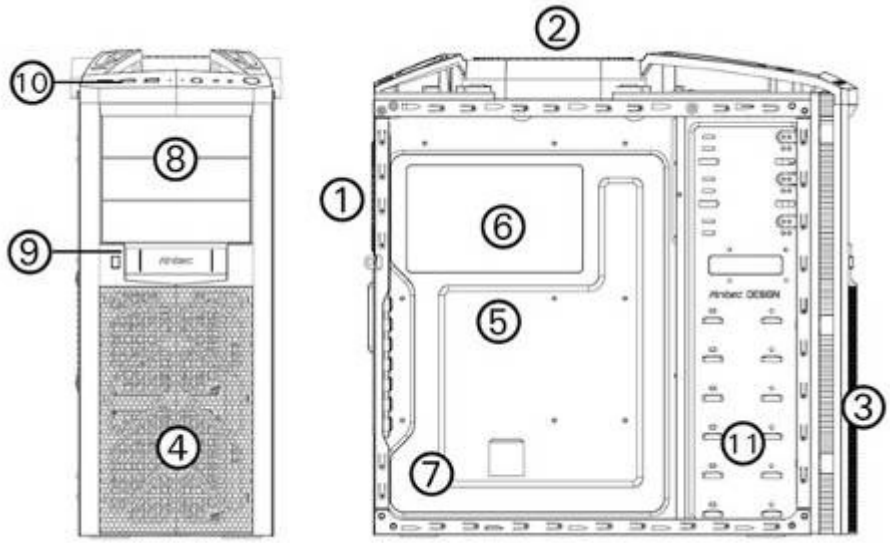
Warning
The top rails are not designed to support the weight of your computer. Please do not use them as handles to carry your case.

CASE SPECIFICATIONS

Case Type	Gaming Mid Tower
Color	Two Tone (Black/Gunmetal Gray)
Product Dimensions	19.3” (H) x 8.3” (W) x 19.4” (D) 491 mm (H) x 212 mm (W) x 492 mm (D)
Weight	15.3 lbs / 6.9 kg
Cooling	1 x Rear 120 mm TwoCool™ blue LED fan 1 x Top special 200 mm TriCool™ blue LED fan 2 x Front 120 mm fan mounts (optional) 1 x Side 120 mm fan mount (optional)
Drive Bays	11 Drive Bays: - 3 x External 5.25” drive bays - 1 x External front-loaded hot swap 2.5” SATA hard drive caddy - 6 x Internal 3.5” drive bays - 1 x Internal 2.5” SSD drive bay
Expansion Slots	8
Motherboard Size	Mini-ITX, microATX, Standard ATX
Front I/O Panel	3 x USB 2.0 AC’97 / HD Audio In and Out

1.2 DIAGRAM

1. 120 mm rear TwoCool™ blue LED fan
2. 200 mm top TriCool™ blue LED fan
3. 120 mm front fans (optional)
4. Washable air filters
5. Motherboard mount
6. CPU cutout
7. Power supply mount
8. 5.25” drive bays
9. 2.5” hot-swap SATA drive bay
10. Front I/O panel
11. 3.5” drive bays, bottom-mounted 2.5” SSD drive bay



HARDWARE INSTALLATION GUIDE

2.1 SETTING UP

1. Place the case upright on a flat, stable surface with the rear of the case facing you.
2. Remove the side panels by first removing the thumbscrews at the rear of the case. Then, grip each panel at the top and bottom and slide it toward the rear of the case until it detaches from the chassis.
3. To remove the front bezel, depress the tabs on the left side of the inside of the front bezel, then swing the bezel open. Once open, it will detach easily from the chassis.

   Note: Do not use your fingernails to pry or lift the panels.

2.2 POWER SUPPLY INSTALLATION

1. With the case upright, place the power supply on the bottom of the case.

   Note: Power supplies with fans on the bottom of the power supply will need to be mounted so that the fan is facing the top of the case. The Six Hundred V2

   provides mounting holes for power supplies with standard mounting layouts to be installed upside up or upside down.
2. Push the power supply to the back of the case and align the mounting holes.
3. Attach the power supply to the case with the screws provided.

2.3 CABLE MANAGEMENT

There is a cable management compartment behind the 3.5” drive cage. You can tuck or route excess cables in this compartment.

1. Open the right side panel as described in section 2.1.
2. Locate the cable management compartment with cable ties located behind the walls of the 3.5” drive cage.
3. Tuck or route your excess cables to the compartment. This will keep the cables from interfering with airflow in your case and help with cooling.
4. Use the cable ties provided to hold them in place.

2.4 MOTHERBOARD INSTALLATION

1. Lay the case down, with the open side facing up. The drive cages and power supply should be visible.
2. Make sure you have the correct I/O panel for your motherboard. If the panel provided with the case isn’t suitable, please contact your motherboard manufacturer for the correct I/O panel.
3. Align your motherboard with the standoff holes and remember which holes are lined up. Not all motherboards will match with all the provided holes; this is normal and won’t affect its functionality.
4. Remove your motherboard by lifting it up.
5. Install standoffs as needed and put the motherboard back in.
6. Screw in your motherboard to the standoffs with the provided Phillips-head screws.

Note:
The Six Hundred V2 comes with a CPU cutout on the motherboard tray, which will allow you to change your CPU heatsink without removing the motherboard.

2.5 INTERNAL 3.5” DEVICE INSTALLATION

The Six Hundred V2 provides space for up to six 3.5” hard drives. Before you begin, remove the side panels and front bezel of the case as described in section 2.1. Behind the front bezel there is a fan cage which provides space for up to two fans at the front of the case.

1. Open the fan cage by pressing both clips to release it, then swing it open and detach it from the chassis.
2. Insert your 3.5” device into the 3.5” drive cage from the front of the case until the mounting holes align with the screw holes in the cage.
3. Fasten the device in place with the provided screws.
4. Mount any other 3.5” HDD devices accordingly.
5. Connect the appropriate power and data cables to the device(s).
6. Replace the fan cage.

2.6 FRONT-LOADED HOT SWAP SATA HARD DRIVE CADDY

This case comes with a built-in, externally accessible 2.5” SATA drive bay where you can load/unload your drive without shutting down your computer.

Note: Before you can use the hot swap feature, you must install all related drivers that come with your motherboard and turn on the “AHCI” function in the BIOS to activate the hot swap feature.

Loading:

1. Align your SATA HDD with the drive bay with the connector facing the case.
2. Push the HDD all the way into the bay until it locks into position.

Unloading:

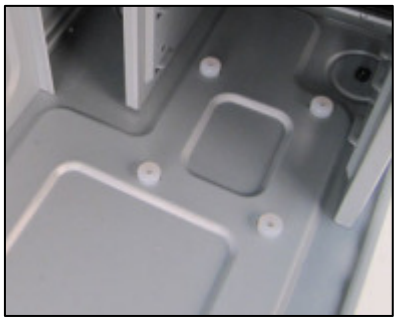
1. Ensure that your HDD is not in use.
1. Push the release button on the left-hand side of the drive bay and pull the HDD free.

2.7 External 5.25” Device Installation

There are three externally accessible 5.25” drive bays. Before you begin, remove both side panels and front bezel as detailed in section 2.1.

1. Remove the drive bay faceplate by applying pressure to the inside of the plate to loosen, then swing back and forth until it pops free of the bezel.
2. Slide your 5.25” device into the bay from the front of the case.
3. Secure the drive into position in the drive cage using the provided screws.
4. Mount any other 5.25” devices accordingly.
5. Connect the appropriate power and data cables to your device(s).

2.8 Internal 2.5” Device Installation



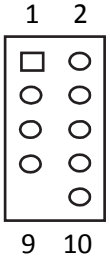
At the bottom of your case, there are mounting holes designed to support one 2.5” SSD device. Before you begin, remove both side panels and front bezel as detailed in section 2.1.

1. Remove four silicon grommets from the tool box. Install them in the four holes at the base of the case at the bottom of the drive bay area. You should install them with the thick part of the grommets facing the inside of the case.
2. Rest your 2.5” device on the grommets, making sure that the screw holes on the device are aligned with the grommets.
3. Secure the device to the case with the screws provided.
4. Connect the appropriate power and data cables to your device

Connecting the Front I/O Ports

3.1 USB 2.0

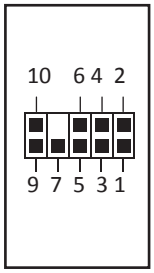
Connect the front I/O panel USB cable to the USB header pin on your motherboard. Check the motherboard user’s manual to ensure that it matches the table below:



Pin	Signal Names	Pin	Signal Names
1	USB Power 1	2	USB Power 2
3	Negative Signal 1	4	Negative Signal 2
5	Positive Signal 1	6	Positive Signal 2
7	Ground 1	8	Ground 2
9	Key (No Connection)	10	Empty Pin

3.2 AC'97 / HD Audio Ports

There is an Intel® standard 10-pin AC'97 connector and an Intel® 10-pin HDA (High Definition Audio) connector linked to the front panel of the case.



Pin	Signal Names (HDA)	Pin	Signal Names (AC'97)
1	MIC2 L	1	MIC In
2	AGND	2	GND
3	MIC2 R	3	MIC Power
4	AVCC	4	NC
5	FRO-R	5	Line Out (R)
6	MIC2_JD	6	Line Out (R)
7	F_IO_SEN	7	NC
8	Key (no pin)	8	Key (no pin)
9	FRO-L	9	Line Out (L)
10	LINE2_JD	10	Line Out (L)

You can connect either the AC'97 or the HDA connector, depending on your motherboard. Locate the internal audio connectors from your motherboard or sound card and connect the corresponding audio cable. Consult your motherboard or sound card manual for the pin-out positions. Even if your system supports both standards, only use one connector.

3.3 Power Switch / Reset Switch / Hard Disk Drive LED Connectors

Connected to your front panel are LED and switch leads for power, reset, and HDD LED activity. Attach these to the corresponding connectors on your motherboard. Consult your motherboard manual for specific pin header locations. For LEDs, colored wires are positive (+). White or black wires are negative (–). If the LED does not light up when the system is powered on, try reversing the connection. For more information on connecting LEDs to your motherboard, see your motherboard user's manual.

Note: Polarity (positive and negative) does not matter for switches.

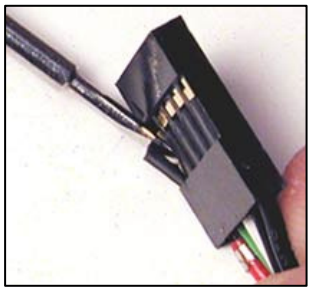
3.4 Rewiring Motherboard Header Connections

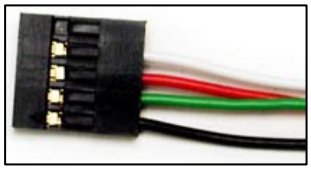
There may come a time when you need to reconfigure the pin-out of a motherboard header connector. Examples could be for your USB header, audio input header, or some other front panel connector such as the Power Button connector.

Before performing any work, please refer to your motherboard user's manual or your motherboard

manufacturer's website to be sure of the pin-out needed for your connector. We strongly recommend making a notated drawing before beginning work so that you can recover if your work gets disturbed.

1. Determine which wires you need to remove in order to rewire your plug to match the USB pin-outs on your motherboard (refer to your motherboard user's manual). Working on one connector at a time, use a very small flathead screwdriver or similar tool to lift up on the black tab located beside the gold posts (squares). This will allow you to easily slide out the pins from the USB plug.
2. Working carefully so as not to damage the wires, connectors, or pins, slowly remove the pin from the connector. Repeat these steps for each wire you need to change.
3. Working carefully so as not to damage the wires, connectors or pins, slowly reinsert the pin into the correct slot of the connector then snap closed the black tab that was lifted in step 1. Repeat these steps for each wire you need to change.





COOLING SYSTEM

4.1 TRICOOL™ FAN

Top TriCool™ Fan – The case comes with a 200 mm top exhaust blue LED fan. The fan is installed so the air will be blown out of the case. This fan comes with a three-speed switch that let you choose the speed best suited to your need. The default fan speed setting is Low.

200 mm TriCool™ Specifications

Size: 200 x 30 mm TriCool™
Rated Voltage: 12V
Operating Voltage: 10.2V ~ 13.8V

Speed (RPM)	Input Current	Airflow	Static Pressure	Acoustic Noise	Input Power
High 800	0.30A	3.80 m3 / min (134 CFM)	0.69 mm-H_2O (0.027 inch-H_2O)	29.4 dBA	3.6 W
Medium 600	0.17A	3.07 m3 / min (108 CFM)	0.40 mm-H_2O (0.016 inch-H_2O)	26.5 dBA	2.0 W
Low 400	0.08A	2.34 m3 / min (83 CFM)	0.20 mm-H_2O (0.008 inch-H_2O)	23.6 dBA	1.0 W

Note: The minimum voltage to start a typical TriCool™ fan is 5V. We recommend that you set the fan speed to High if you choose to connect the fan(s) to a fan control device or to the Fan-Only connector found on some Antec power supplies. A fan control device regulates the fan speed by varying the voltage, which may start as low as 4.5V to 5V. Connecting a TriCool™ fan set on Low to a fan-control device may result in the fan not being able to start because the already lowered voltage from the fan control device will be further reduced by the TriCool™ circuitry below 5V.

4.2 TWOCOOL™ FAN

Rear TwoCool™ Fan – There is a 120 x 25 mm TwoCool™ fan preinstalled at the rear of the case. The fan is installed so the air will be blown out of the case. This fan comes with a two-speed switch that let you choose the speed best suited to your need. The default fan speed setting is Low.

120 mm TwoCool™ Specifications

Size: 120 x 25 mm TwoCool™ fan
Rated Voltage: 12V
Operating Voltage: 10.8V ~ 13.2 V

Speed (RPM)	Input Current	Airflow	Static Pressure	Acoustic Noise	Input Power
High 1500	0.30A (Max.)	1.43 m^3 / min (51 CFM)	1.21 mm-H_2O (0.047 inch-H_2O)	27.9 dBA	3.6W
Low 900	0.18A	0.08 m^3 / min (30 CFM)	0.49 mm-H2O (0.020 inch-H2O)	16.9 dBA	2.2W

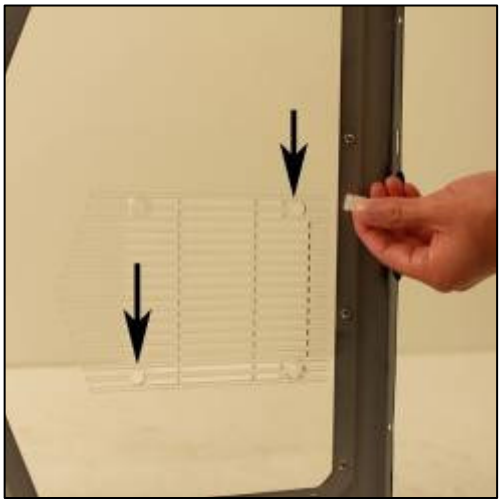
Note: The minimum voltage to start a typical TwoCool™ fan is 5V. We recommend that you set the fan speed to High if you choose to connect the fan(s) to a fan control device or to the Fan-Only connector found on some Antec power supplies. A fan control device regulates the fan speed by varying the voltage, which may start as low as 4.5V to 5V. Connecting a TwoCool™ fan set on Low to a fan-control device may result in the fan not being able to start because the already lowered voltage from the fan control device will be further reduced by the TwoCool™ circuitry below 5V.

4.3 OPTIONAL FANS

There are a total of three optional 120 mm fan mounts—one side intake fan (on the left side panel) and two front intake fans (at the front of the HDD cage). We recommend using Antec 120 mm speed control fans and setting the speed to Low. These fans must be installed so that the air is blowing into the case.

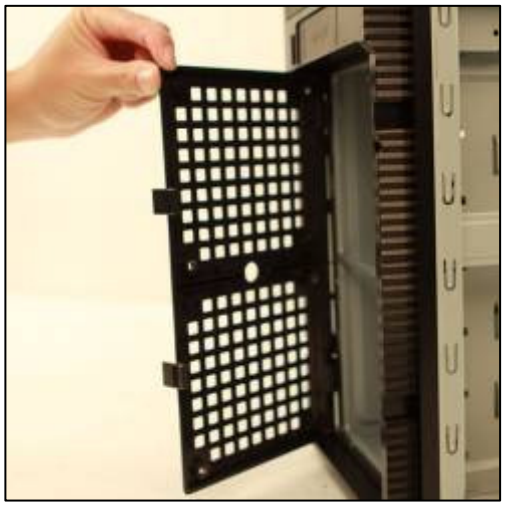
Side Fan – The side fan enhances graphic cards cooling. The fan should be installed so air is blowing into the case. To install the side fan:

1. Remove the windowed side panel as described in section 2.1, and take two silicone grommets from the tool box.
2. Attach the silicone grommets to the two compatible holes in the fan mount. Squeeze the shorter end of the grommets into the apertures until they lock into position.
3. Secure your 120 mm fan to the two silicon grommet mounts with the included screws on the inside of the side panel. The fan should be installed so that air is blowing into the case.



Front Fans – You can install two 120 mm fans to the fan cages in front of the hard drive bays. To install the front fans:

1. Remove the front bezel as described in section 2.1.
2. Depress the two tabs on the right side of the black fan holder and swing it outward. The holder will easily pull free of the chassis.
3. Secure your 120 mm fan(s) to the fan holder with the provided screws. The fan should be installed so that air is blowing into the case.
4. Reattach the fan holder to the case by inserting the right side into the corresponding slots on the front of the case, then rotating the holder back into position until it clicks into place.

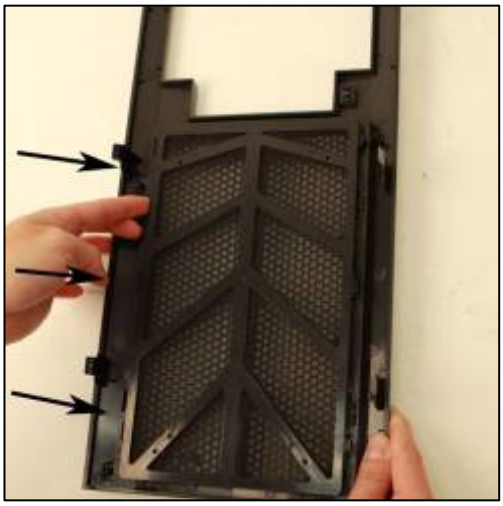


Note: In order to build a quieter system, Antec recommends NOT installing the optional fans unless it is necessary for cooling. If you choose to install them we recommend using Antec 120 mm TriCool™ fans and setting the speed to Low.

4.4 WASHABLE AIR FILTERS

Occasionally, it will be necessary to wash the air filters. Not washing the filters may result in high system temperatures and possible stability problems. We recommend checking the air filters at least once a month initially. The frequency will change depending on environmental conditions and system usage. Users who run their systems 24/7 will have to check their filters more often than those who don't run their systems every day.

Front Air Filter – There is an air filter located behind the front bezel.



To remove the filter:

1. Remove the front bezel as listed in section 2.1. The filter is located on the inside of the bezel.
2. Pull up on the left side of the air filter. The left side will detach.
3. Swing it open until the filter separates from the bezel.

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